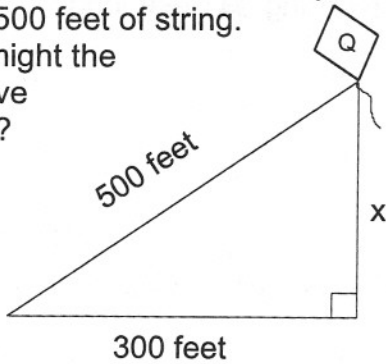# Unit 43   Practice Problems

Instructions: Solve the following problems using △ the procedures described on page 112.
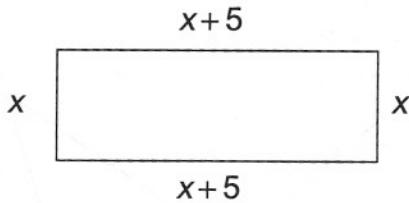
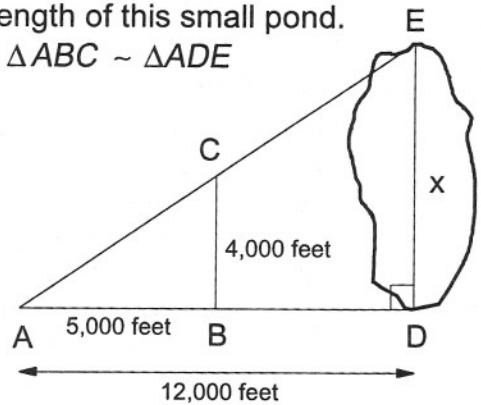1) Peter went to a 300-foot field to fly a kite with 500 feet of string. How high might the kite fly above the ground?

500 feet

x

300 feet

2) Mary is 5 times as old as her brother Jim. She will be twice as old in six years. How old are Jim and Mary? **Let x equal the smallest number.**

Time	Jim	Mary
Now	x	
Future		

3) A rectangle is 5 inches longer than it is wide. Its perimeter is 50 inches. How long is this rectangle? **Let width equal x.**

$x+5$

x x

$x+5$

4) Use the fact that sides of similar triangles are in proportion to find the length of this small pond.
Hint: △ABC ~ △ADE

E

C

x

4,000 feet

A   5,000 feet   B   D

12,000 feet

Unit 43 answers are on page 240.
Unit 43 additional practice problems are on page 197.

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